

STATINTL

TRIP REPORT

AUGUST 16-30, 1974

WORKING GROUP ON THE
EFFECTS OF POLLUTION
ON MARINE ORGANISMS

Marine Pollution

OSI
OGR
CAS

STATINTL

*4mil
AES*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NATIONAL MARINE WATER QUALITY LABORATORY

SOUTH FERRY ROAD

NARRAGANSETT, RHODE ISLAND 02882

Introduction

When our working group signed the initial protocol, we jointly realized our most serious problem would be communication and our biggest need was to acquaint each other with the state of the art each side was attained regarding marine pollution research. To accomplish our goal of closer communication, we agreed on two avenues to facilitate communications. First, we established a program of exchange of top-flight scientists and secondly, we agreed to the joint US-USSR publication of a journal on marine pollution. The purpose of the exchange program was to make contact with researchers at public and private institutions engaged in marine research. Top researchers of each country would be available for a lectureship and discussion program. As part of this continuing exchange program, the working group on Effects of Pollutants on Marine Organisms received three distinguished Soviet scientists August 16, 1974 in Washington D.C.

Participants

- Dr. V.N. Maximov, Biology Department, Moscow State University. A specialist in the area of Mathematical planning of biological experiments. Chairman of the delegation.
- Dr. G.G. Polikarpov, Institute of Biology of the South Seas, Sevastopol. A specialist in the area of radio ecology and radio nuclides.
- Dr. I.B. Tokin, Director, Murmansk Marine Biological Institute. A specialist in the area of marine chemistry and cytology.
- Dr. E.D. Schneider, Director, National Marine Water Quality Laboratory, Environmental Protection Agency; United States Chairman of working committee of pollution and its Effects on Marine Organisms.
- Mrs. L. Bilinski, Translator, National Marine Water Quality Laboratory, Environmental Protection Agency.
- Mrs. E.J. Hoffman, Scientific Coordinator, National Marine Water Quality Laboratory, Environmental Protection Agency.
- Mrs. A. Jahn, Translator, National Marine Water Quality Laboratory, Environmental Protection Agency.

Mr. B. Lukianoff, Translator, United States State Department.

Mr. M.J. Wade, National Marine Water Quality Laboratory, Environmental Protection Agency.

Itinerary

A general itinerary was worked out to enable the Soviet scientists to visit several institutions while at the same time allowing as much exposure to these institutions as a two-week period would allow. Institutions visited included:

Graduate School of Oceanography
University of Rhode Island
Kingston, Rhode Island 02881

National Marine Water Quality Laboratory
Environmental Protection Agency
Narragansett, Rhode Island 02882

Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543

Marine Biological Laboratories
Woods Hole, Massachusetts 02543

National Estuarine Fisheries Center
National Oceanic and Atmospheric Administration
U.S. Department of Commerce
Beaufort, North Carolina 28516

Duke University Marine Laboratory
Beaufort, North Carolina 28516

Scripps Institution of Oceanography
La Jolla, California 92037

A detailed hour-by-hour itinerary is enclosed as Enclosure (1)

Evaluation

The scientific discussions and seminars proved to be very informative to both parties. This was due to a more individual effort on the part of the Soviet scientists concerned rather than the reflection of an official policy. The three scientists were genuinely concerned about the quality of their seminars from both the substantive standpoint as well as the communication standpoint. Dr. Tokin and Dr. Polikarpov delivered all seminars in English with only intermittent help from the translator.

Judging from comments made by American scientists, it appears as though Dr. Tokin and Dr. Polikarpov were especially eager to begin personnel exchanges with United States researchers. They felt as though, through their academic positions in the Soviet Union, they were better able to establish institution to institution communications rather than high-level communications through the workings of the Agreement. They expressed the desire to begin these exchanges within one year and we are doing everything possible to accomplish this, sooner than one year if possible. My office has contacted the directors of all institutions we visited in this tour regarding the exchange of personnel. We have asked that the principles involved in discussions regarding exchange programs to contact my office and we are awaiting the results of these inquiries.

On the negative side, the end-result of this tour was a confirmation of previously held opinions. The Soviet effort in this specific area of the Agreement has yet to gel and is suffering. In addition, our communications problems encountered in earlier dealings with the Soviet side are continuing and may be with us as long as we are dealing with our Soviet counterparts.

It appears the leadership in the Soviet Union has not felt strongly enough about this working group to engender anything more than an interest in touring the United States. We are not receiving sufficient interest on the part of the Soviets to move us any closer to cooperation and communication than we are at present. From discussions with the three Soviet scientists, we feel little or nothing has been done in implementing the terms of the protocol we agreed to in Moscow on October 27, 1973. Specifically, no effort appeared to have been expended on the Soviet side concerning the joint journal on marine pollution monitoring which was part of that protocol. We are now in the process of attempting to generate some high level interest in the Soviet Union concerning this journal. Up to now, all effort has been on the American side. The United States Environmental Protection Agency has funded the journal, a staff has been selected, and a call for papers has been issued. We do not feel the journal should be a unilateral effort since it was proposed as a joint journal.

As far as logistics were concerned, the entire trip was uneventful. There were only minor problems encountered during the trip and these were corrected. The Soviet scientists and their American escorts established a group identity early in the trip which prevailed until the Soviets left for Moscow. In this respect, this may have been the most positive note of the entire trip.

SOVIET VISIT AUGUST 16-30, 1974 ITINERARY

AUGUST 16

5:45 Arrival in Dulles International Airport in Washington, D.C.
6:30 Depart via automobile to Statler Hilton Hotel, Washington, D.C.
8:30 Dinner & birthday party at Emerson's Steak House, Washington, D.C.
10:30 Overnight at Statler Hilton

AUGUST 17

8:00 Breakfast
9:00 Depart hotel on foot for White House
9:20 Arrive East Gate White House - meet David Strother-EPA International Activities
9:30 White House Tour
10:30 Wait unsuccessfully for King Hussein
10:45 Walking tour of Washington D.C.
Soviet Embassy
American Chemical Society
National Geographical Society
Downtown Washington
Georgetown University
Lincoln Memorial
Washington Memorial
12:10 Hotdog lunch at Washington Memorial
1:00 Continue walking tour
Pakistani festival
Smithsonian Institution
Museum of Modern Art
3:00 Return to hotel
4:00 Depart hotel for dinner at home of Dr. Charles Osterburg
5:00 Dinner at Dr. Osterburg's home
9312 Gue Road
Damascus, Maryland

AUGUST 18

9:30 Breakfast
11:00 Depart hotel for Baltimore Maryland
1:00 Lunch at Baltimore Memorial Stadium
2:00 Baseball game: Baltimore Orioles vs. Kansas City, Royals
4:45 Leave stadium for Friendship Airport, Baltimore
7:00 Depart Baltimore for Providence, Rhode Island via Allegheney, Flt. 712
8:15 Arrive Providence Rhode Island
9:15 Dinner at Golden Lantern Restaurant in Warwick, Rhode Island with Dr. and Mrs. Eric Schneider, Mr. and Mrs. Mike Wade Dr. and Mrs. Gerald Hoffman
11:00 Overnight at Holiday Inn, Kingston, Rhode Island

AUGUST 19

8:30 Breakfast at hotel
9:15 Depart hotel for laboratories
9:30 Arrival at National Marine Water Quality Laboratory
Introduction to the functions of the laboratory by
Dr. Eric Schneider, Director
10:30 Seminar - G.G. Polikarpov Pell Lecture Room, University of
Rhode Island
11:30 Interview with Channel 10, WJAR - Television, Reporter -
Jack Kavanaugh
11:45 Met with Soviet physical oceanographers working on the Mid-
Ocean Dynamic Experiment
12:00 Hamburger - hotdog lunch on picnic grounds of the National
Marine Water Quality Laboratory
1:30 Introduction to function and facilities of University of
Rhode Island Graduate School of Oceanography - Stuart Hale
Asst. to the Dean
1:45 Tour of University facilities especially the aquarium
3:00 Seminar - V.N. Maximov, Pell Lecture Room, University of
Rhode Island
5:00 Return to hotel and leave for home of Dr. Eric Schneider
6:00 At Dr. Schneiders home
Sailing on Quonochontaug pond
Skindiving
Swimming
7:00 Lobster dinner at home of Dr. Schneider with Dr. and Mrs. Eric
Schneider
Mr. and Mrs. Stuart Hale
Mr. David Strother
10:30 Return to hotel

AUGUST 20

8:30 Breakfast at hotel
9:15 Leave hotel for laboratories
9:30 Drs. G.G. Polikarpov and I.B. Tokin tour Rhode Island
Nuclear Science Center-Frank Dimeglio, Director
(1) reactor and control room
(2) counting equipment
meet with scientists using the reactor for activation analysis
Dr. Gerald Hoffman
Mr. Gregory Telek
Mr. C.K. Unni
Mr. Gary Klinkhammer
Studies of air-sea interface-bubbler apparatus
Dr. Robert Duce
Meet with Dr. John Sieberth
9:30 Dr. Maximov - met with Dr. Scott Nixon and group
Dr. Candace Oviatt
Mr. Mike Sissenwine
Mr. Jim Kramer
Mr. Bob Dwyer

12:15

Meeting with Saul Salla
Lunch at University of Rhode Island
North Laboratory - Attending were:

URI Marine faculty
Dr. Wm. Ferrante, Vice President of the University
Soviet physical oceanographers
Scientists from NOAA, National Marine Fisheries
Service, Milford, Ct.

1:00

Interview with channel 6 WTEV - Television
Interview with WHIM - Radio

1:30

Seminar Dr. I.B. Tokin - National Marine Water Quality Laboratory

1:30

Dr. V.N. Maximov - meet with Drs. Saul Salla and Don Phelps and
go to Research barge at Jerusalem, Rhode Island and then to
URI Marine Experiment Station.

3:30

Dr. V.N. Maximov returns

3:30

Tour of National Marine Water Quality Laboratory
Discussions with

Dr. Ken Perez
Dr. Gerald Pesch
Mr. Paul Yevich
Dr. Sue Cheer
Dr. Ron Eisler
Dr. Jack Gentile

4:30

Depart R.I. via automobile to Woods Hole passing through
Newport Rhode Island, Fall River, Massachusetts, New Bedford,
Mass, and Falmouth Mass.

6:00

Arrive Sleepy Hollow Motel, Woods Hole, Massachusetts, meet
with Dr. John Stegemen, Representative of Woods Hole
Oceanographic Institution

7:30

Dinner at Carriage House. Woods Hole Oceanographic Institution
with Dr. Paul W. Fye, Director and other WHOI scientists.

10:30

Return to Motel

11:00

After hour activities

AUGUST 21

8:30

Poolside breakfast at Dome Restaurant

10:00

Official welcome to Woods Hole Oceanographic Institution
by Dr. Arthur E. Maxwell, Provost.

10:30

Tour W.H.O.I. facilities

12:00

Lunch at Graduate Student Center

1:30

Seminar, Dr. G.G. Polikarpov

2:45

Seminar, Dr. I.B. Tokin. Dr. Polikarpov meets with Dr. J. Teal,
Dr. D. Sabo and Mrs. R.A. Carpenter

3:00

Dr. V.N. Maximov meet with W.H.O.I. biologists Dr. J. Teal,
Dr. J. Stegeman and Dr. F. Grassle.

6:00

Dinner at Dome Restaurant

9:00

Free time general tour of Woods Hole and Falmouth, Mass.

AUGUST 22

8:30

Breakfast Poolside at Dome Restaurant

9:30

Seminar, Dr. V.N. Maximov

Dr. I.B. Tokin meet with Dr. J. Farrington and Dr. C. Remsen in
morning

12:00

Lunch at Wheel House Restaurant, Woods Hole

1:00 Dr. V.N. Maximov hosted by Dr. G. Rowe in the afternoon
Dr. I.B. Tokin meet with Dr. J. Teal
Dr. J. Stogemen, Dr. D. Sabo and Ms. K. Barns in the afternoon.
7:00 Dinner and gathering at house of Dr. John Stegeman
10:30 Overnight at Motel

AUGUST 23

8:00 Breakfast poolside at Dome Restaurant
9:15 Meeting with Dr. Paul W. Fye, Director of Woods Hole Oceanographic Institution.
10:00 Depart Woods Hole via automobile for Boston, Massachusetts
11:30 Arrive Boston
12:00 Lunch at Top of the Hub, Prudential Center, Boston
12:30 Depart Prudential Center
1:00 Arrive Logan International Airport Boston
1:45 Depart Boston via American Airlines flight 581 to Washington, D.C.
3:15 Arrive Washington National Airport
4:00 Depart Washington, D.C. via Piedmont Airlines flight 905 to New Bern, North Carolina.
5:30 Arrive New Bern, North Carolina, met at airport by Dr. Ted Rice and Dr. Tom Duke. Drive to Beaufort.
6:30 Arrive in Beaufort, North Carolina. Check into faculty housing at Duke Marine Laboratory
7:30 Dinner with Mr. Tony Seamon, Jr. Local luminary, plus local press representatives.
10:30 Overnight at Duke Marine Laboratory

AUGUST 24

8:00 Breakfast in Beaufort
9:00 Tour of Atlantic Estuarine Fisheries Center, during which meet with representatives of local news media.
11:15 Tour of Duke University Marine Laboratory. Escorted by Dr. John Sotherland.
12:15 Luncheon at Sanitary Fish Market and Restaurant, Moorehead City, North Carolina. Attendants included:
Mayor Edward S. Dixon
Dr. Thomas L. Linton-representative of Governor Holshouser
Mr. Tony Seamon, Sr.
Mr. Tony Seamon, Jr.
Local news representatives
Scientists from NMFS-NOAA & Duke University
2:00 Return to NMFS Laboratory. Seminars by Soviet Scientists
4:00 Tour local points of interest aboard R/V Onslow Bay.
6:00 Picnic and cocktails with families and staff of NMFS, NOAA.
Dr. Ted Rice host
11:00 Overnight at Duke University faculty housing

AUGUST 25

8:00 Breakfast in Beaufort
9:00 Depart Beaufort, N.C. via automobile for Jacksonville,
North Carolina
10:00 Arrive Jacksonville Airport
10:52 Depart Jacksonville, N.C. for Washington, D.C. via Piedmont
Flight 910
12:10 Arrive Washington National Airport, Washington, D.C.
12:30 Lunch Washington National Airport
2:20 Depart Washington, D.C. for San Diego, California stopping
in Dallas, Texas via American Airlines flight 369
4:52 Arrive Dallas International Airport
5:30 Depart Dallas for San Diego via American Airlines flight 393
6:13 Arrive San Diego Airport
7:00 Depart San Diego for La Jolla by Taxi
7:30 Arrive La Valencia Motel, La Jolla. Check in.
8:30 Dinner the Hofbrauhaus, La Jolla
Meet: Dr. Allyn Seymour
Dr. Vincent Schultz
10:30 Overnight at La Valencia

AUGUST 26

8:30 Breakfast La Jolla
9:30 Depart La Jolla for San Diego Zoo and Wild Animal Park
11:30 Shopping town of San Diego
5:30 Return to La Jolla
Dr. Polikarpov in conference entire day at Mt. Soledad
Laboratory with Dr. Anthony Novotny, Dr. Vincent Schultz,
Dr. Allyn Seymour, Dr. Ted Folsom.
7:00 Dinner at a chinese restaurant, La Jolla
10:00 Overnight at La Valencia Hotel

AUGUST 27

8:30 Breakfast in La Jolla
9:30 Depart LaValencia for Scripps Oceanographis Institution
Building T-29. Welcome by Dr. E.D. Goldberg.
Scientific discussions with American scientists:
Dr. Tsaihwa Chow
Dr. Richard Epply
Dr. Ted Folsom
Dr. Bill Templeton
Dr. Vincent Schultz
Dr. Ken Neilson
Dr. Rubin Lasker
12:00 Sandwich lunch at Building T-29
1:00 Continue Scientific discussions
5:00 Depart Scripps Institution for La Valencia
7:00 Return to Scripps Institution for Banquet in Building T-29
9:00 Ice cream snack at home of Dr. Charles Merdinger, Assistant
Director, Scripps Oceanographic Institution
10:45 Return to La Valencia - Overnight.

AUGUST 28

8:00 Breakfast in La Jolla
9:00 Informal seminars by Soviet scientists.
11:30 Interviews with representatives of news media.
12:00 Lunch at Mount Soledad Laboratory. Host Dr. Ted Folsom.
2:00 Informal meetings with Soledad scientists and tour of laboratory facilities.
3:00 Meetings with National Marine Fisheries Service personnel.
4:30 Return to La Valencia
6:30 Depart hotel for dinner
7:00 Arrive at home of Mr. Richard Kramer. Dinner with invited guests including:
Dr. W.A. Nierenberg
Dr. and Mrs. Ted Folsom
Dr. and Mrs. Ted Geisel
Dr. and Mrs. E.D. Goldberg
Dr. and Mrs. T.J. Chow
10:30 Return to La Valencia Hotel La Jolla

AUGUST 29

6:15 Depart Hotel via taxi for San Diego Airport
7:00 Arrive San Diego Airport
8:00 Depart San Diego for Washington, D.C. via American Airlines flight 76.
5:00 Arrive Dulles International Airport, Washington, D.C.
6:00 Depart Dulles via Hertz automobile for downtown Washington
7:00 Arrive Statler Hilton Hotel, Washington, D.C.
8:30 Dinner Hogates Restaurant, Washington
11:00 Return to Statler Hilton, Overnight

AUGUST 30

9:00 Breakfast in Washington
10:00 Free day for shopping, sightseeing, visit to Soviet Embassy, etc.
4:00 Depart Washington, D.C. for home of Mr. David Strother. International activities, U.S. E.P.A.
5:00 Arrive at home of Mr. Strother for cocktail party and light snacks. Invited guests:
Mr. and Mrs. Wingate Lloyd
6:30 Depart home of Mr. Strother for Dulles International Airport via automobile
7:00 Arrive Dulles International Airport, check in Soviet guests
8:10 Soviet guests depart United States for Soviet Union via Aeroflot Flight 318.
8:15 EPA Personnel depart Dulles International airport for Washington National Airport.
9:30 Arrive Washington National Airport
10:30 EPA personnel depart Washington, D.C. for Providence, Rhode Island, via Allegheny Airlines flight 476
12:15 Arrive Providence, Rhode Island.